BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: improvements to drains and culverts at Kodigehall Ward no 08

Est Cost: 65.00lakhs

Sl. No.	Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	yajman hanumaiyya layout	Cum							
	5th cross		2	110.00	0.95	0.90	188.10		
	Anganwadi road(adjoining road)		1	73.00	0.95	0.90	62.42		
	connecting drain upto govt school		1	30.00	1.10	0.90	29.70		
	Muneshwara block main road		1	388.00	1.10	0.90	384.12		
	Culverts		3	6.50	2.00	1.05	40.95		
	Culverts		6	5.00	2.00	1.05	63.00		
							768.29	186.92	**143607.83**
	Basic rate	**82**							
	Loading and unloading with 10km lead= 68+2.5x1.28x10 = 100	**100**							
	Area Weightage 6%	**4.92**							
	Final Rate	**186.92**							
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	yajman hanumaiyya layout								
	5th cross		2	110.00	0.95	0.150	31.35		
	Anganwadi road(adjoining road)		1	73.00	0.95	0.150	10.40		
	connecting drain upto govt school		1	30.00	1.10	0.150	4.95		
	Muneshwara block main road		1	388.00	1.10	0.150	64.02		
	Culverts		3	6.50	2.00	0.150	5.85		
	Culverts		6	5.00	2.00	0.150	9.00		
							125.57	5348.76	**671657.17**
	Basic rate	**5046**							
	Area Weightage 6%	**302.76**							
	Final Rate	**5348.76**							
3	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortar 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2016-17)								
	Culverts	Cum	6	6.5	0.60	0.80	18.72		

Sl. No.	Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Culverts	Cum	12	5	0.60	0.80	28.80		
							47.52	4438.22	**210904.21**
	Basic rate	**4187.00**							
	Area Weightage 6%	**251.22**							
	Final Rate	**4438.22**							
4	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWTD S.R 2016-17)								
	Culverts	Sqm	6	6.50	--	0.80	31.20		
	Culverts	Sqm	12	5.00	--	0.80	48.00		
							79.20	102.82	**8143.34**
	Basic rate	**97**							
	Area Weightage 6%	**5.82**							
	Final Rate	**102.82**							
5	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No: KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17)								
	Coping	Cum							
	Culverts		6	6.50	0.60	0.100	2.34		
	Culverts		12	5.00	0.60	0.100	3.60		
	Approach CC	Cum							
	5th cross	0.5	2.00	110.00	0.300	0.100	3.30		
	Anganwadi road(adjoining road)	0.5	1.00	73.00	0.300	0.100	1.10		
	connecting drain upto govt school	0.5	1.00	30.00	0.300	0.100	0.45		
	Muneshwara block main road	0.5	1.00	388.00	0.300	0.100	5.82		
	Culverts	0.5	3.00	6.50	0.300	0.250	0.73		
	Culverts	0.5	6.00	5.00	0.300	0.250	1.13		
							18.46	5767.46	**106467.31**
	Basic rate	**5441.00**							
	Area Weightage 6%	**326.46**							
	Final Rate	**5767.46**							
6	Providing laying palin / reinforced cement concrete for Box Drain walls of thicknes 10cm to 20 cm including cenmtering shuttering form work etc. complete as per approved drawiong and design MORTH Specification No. 1500,1700,2200 PCC M 20 Grade upto 0.75 m height using concrete mixture (P.No.265, I.No.37.59.2 of PW, P&IWTD SR 2016-17)								
	Culvert	Cum							
	Bottom Slab								
	5th cross		2.00	110.00	0.75	0.15	24.75		
	Anganwadi road(adjoining road)		1.00	73.00	0.75	0.15	8.21		
	connecting drain upto govt school		1.00	30.00	0.90	0.15	4.05		
	Muneshwara block main road		1.00	388.00	0.90	0.15	52.38		
	Side Walls								

Sl No.	Description of Item	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	5th cross		4.00	110.00	0.15	0.60	39.60		
	Anganwadi road(adjoining road)		2.00	73.00	0.15	0.60	13.14		
	connecting drain upto govt school		2.00	30.00	0.15	0.60	5.40		
	Muneshwara block main road		2.00	388.00	0.15	0.60	69.84		
							217.37	11032.48	**2398157.76**
	Basic rate	**10408**							
	Area Weightage 6%	**624.48**							
	Final Rate	**11032.48**							
7	KSRB - 4.9.2: Providing TMT steel reinforcement Fe500 for R.C.C work incluading straightening, cutting, bending, hooking, paicing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17, I.No.4.46.2 of PW, P&IWTD SR 2016-17)								
	Consider 55Kgs/cum for item No. only RCC Drain Qty	Tonne		217.37	0.055	--	11.96		
							11.96	64243.42	**768351.30**
	Basic rate	**60607**							
	Area Weightage 6%	**3636.42**							
	Final Rate	**64243.42**							
8	Providing and fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
		Sqm							
	5th cross		2.00	110.00	0.75	--	165.00		
	Anganwadi road(adjoining road)		1.00	73.00	0.75	--	54.75		
	connecting drain upto govt school		1.00	30.00	0.90	--	27.00		
	Muneshwara block main road		1.00	388.00	0.90	--	349.20		
							595.95	1834.00	**1092972.30**

Description of Item	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
			m	m	m			
... and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete ... g graded granite jelly 20mm and down size with steel reinforcement, including ... work, lift charges, curing and concrete finished surfaces on both sides etc, complete ... per drawing and the directions of Engineer in-charge. (Data Rate)								
	Sqm							
Culverts		3.00	6.50	1.80	--	35.10		
Culverts		6.00	5.00	1.80	--	54.00		
						89.10	5111.00	455390.10
							Total Construction Cost	5855651.326
							Cost towards Design Report , PMC / Third Party inspection LS	58556.51
							Tender premium 10%	585565.13
							Sub Total	6499772.97
							Miscellaneous and rounding off	227.03
							Total	6500000.00

Certificate.

1. The workspot was inspected and Provisions made in the estimate are adequate and necessary.
2. Work Spot comes under BBMP limits.
3. The estimate based on PWD CSR for the year 2016-17.
4. This work is not split up.
5. These works are not taken up in any other grants and free from Defect Liability Period.
6. Earlier Improvements taken up in the proposed roads are recorded in earlier road history.

... Engineer

Assistant Executive Engineer

Executive Engineer 27/01

Executive Engineer
Byatarayanapura Division
Yelahanka Zone, BBMP
Bangalore - 560 092

ADMINISTRATIVE APPROVAL

Accorded For Rs. Sixty five lakhs only

Head of A/c. P-3333

Div. Ref. No. 162/EE-18 Date 27/01/18

AE 27/01

EE(BTM) 27/01

TECHNICAL SANCTION

ADMINISTRATIVE APPROVAL

Accorded For Rs. Rs sixty five lacs only

Head of A/c. P-3333

Div. Ref. No. ...76)-562/1978 Date 29.01.18

AE

EE(YNK)

NAME OF WORK: Improvement of Roads, Drains and Culvert in Kodigehalli Ward no 8